

Fig.1A.

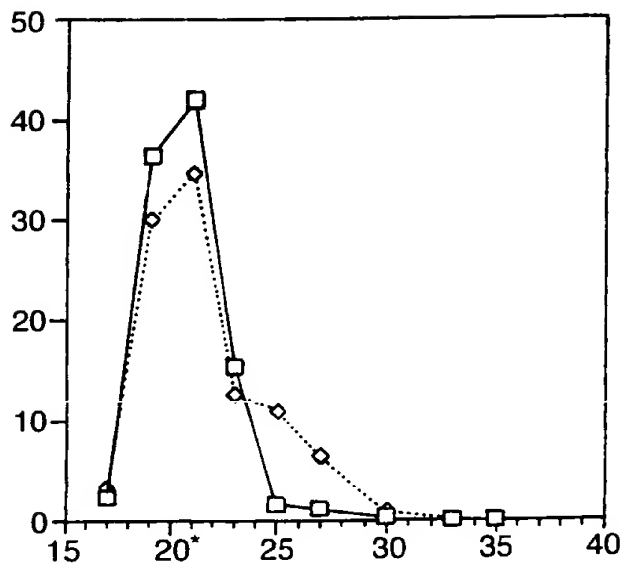
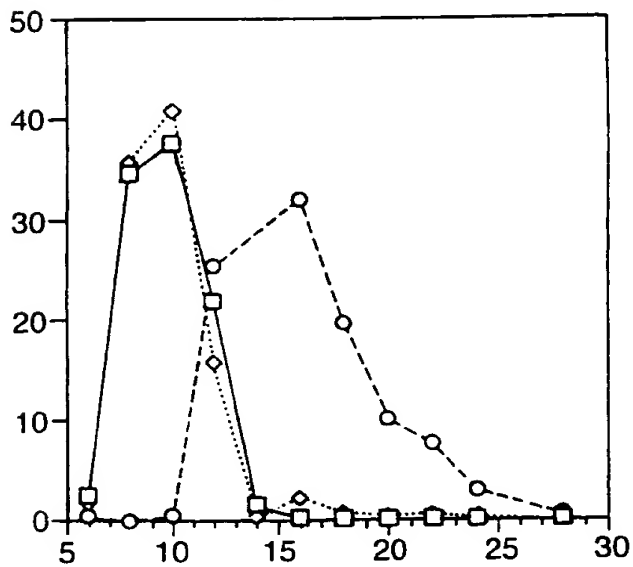


Fig.1B.



662120"50514660

1 MISALISPEONFAPSPDFKMLCELPVKIHEVQINACTACKSRPAYEILISNFVEMWRTVGNIIYPAV...
 121 KCONLSLLVRE...IA...
 51 THQACOPASIAIVPV...
 239 VRRKDDOLGKVGTPAQOQKKNVLSY...
 166 VCG...
 356 LVKSAKZALSPNSINNVDPHPL...
 280 TXPDIKH...
 476 NQD...
 394 Z...
 594 K...
 492 K...
 702 TOTRITRA...
 607 ...
 811 LPPKCEL...
 717 SNTQTF...
 818 N...
 831 ...

Figure 2

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Fig.3A.

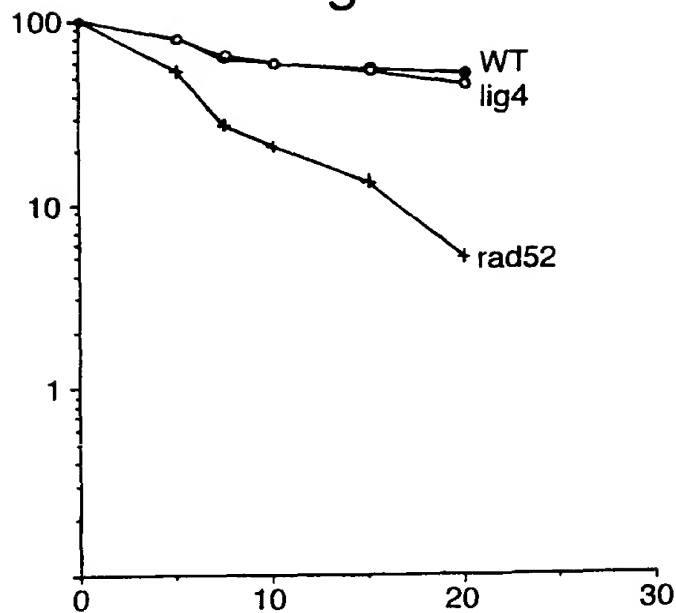
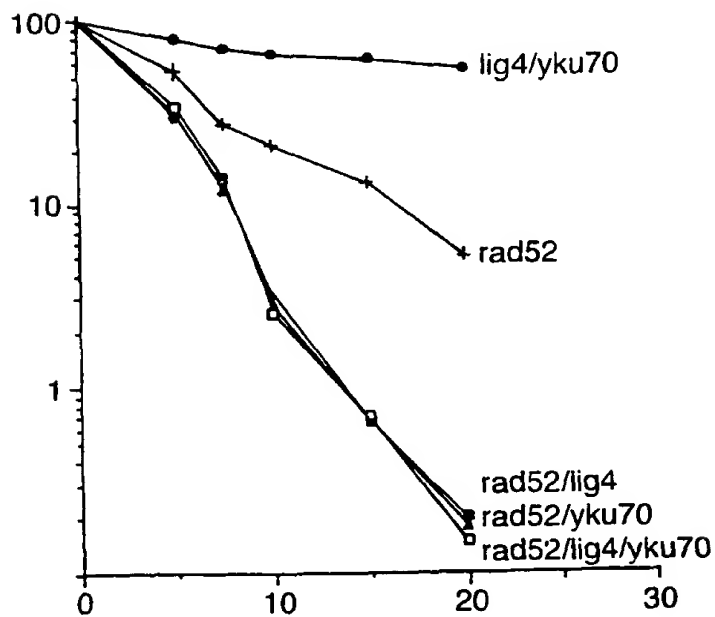


Fig.3B.



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Fig.4.

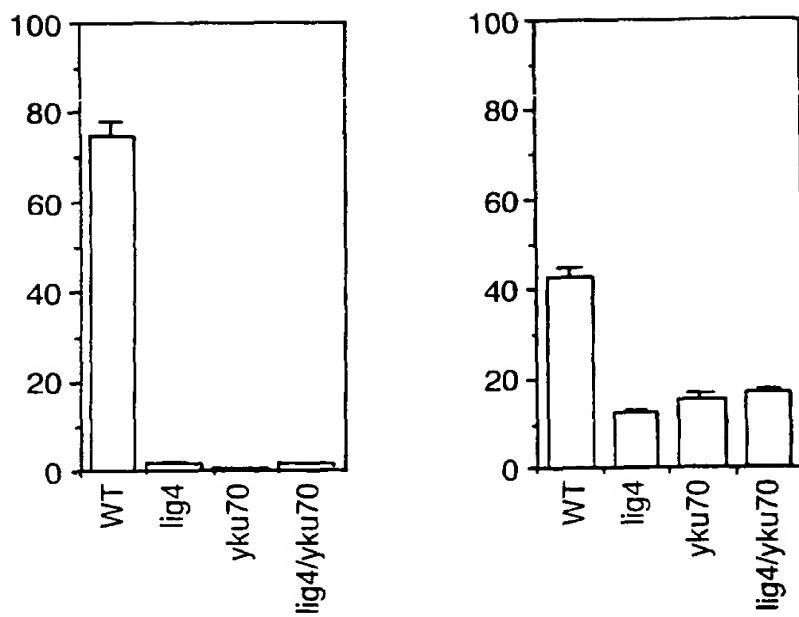
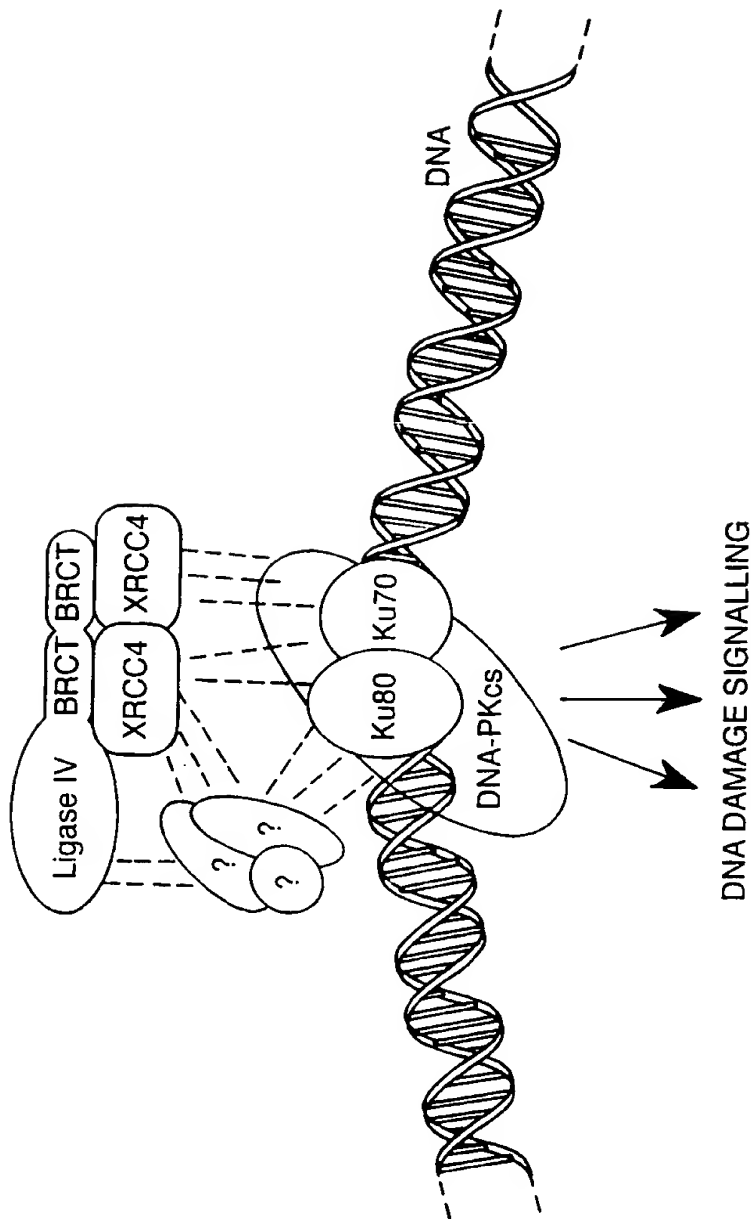


Fig.5.



[illegible]

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Figure 6 (Continued)

GATTATGTATTAATAAGAACTATATGCTCTTACTTGAAGTTGCCAAAAAATTTCTGCAACA
601 -----+-----+-----+-----+-----+ 660
CTAATACATAATTATTCTTGATATACGAGAATGAACTTCAACGGTTTTTTAAGACGTGT
D Y V L I R T I C S Y L K L P K N S A T -
GAGCAGCGGTTAAAAGATTGGAACAGCGTGTGCGTAAAGGTGGGAATCTTTCTCTCTT
661 -----+-----+-----+-----+-----+ 720
CTCGTCGCCAATTTTCTAACCTTTGTGCGCACAGCCATTTCCACCCTTAGAAAGAAGAGAA
E Q R L K D W K Q R V G K G G N L S S L -
CTTGTGGAAGAAATTGCTAAAAGAAGGGCTGAACCTAGCTCAAAAGCGATTACAATTGAT
721 -----+-----+-----+-----+-----+ 780
GAACACCTTCTTTAACGATTTTCTTCCCGACTTGGATCGAGTTTTGCTAATGTTAACTA
L V E E I A K R R A E P S S K A I T I D -
AACGTCAATCACTATCTGGATAGTTTGTAGTGGAGACAGGTTTCGCTTCGCGACGAGGATTT
781 -----+-----+-----+-----+-----+ 840
TTGCAGTTAGTGATAGACCTATCAAACTCACCTCTGTCCAAGCGAAGGCCTGCTCTCTAAA
N V N H Y L D S L S G D R F A S G R G F -
AAGAGTCTTGTCAAGTCCAAACCTTTCTGCACTGTGTGGAGAATATGAGTTTCGTCGAA
841 -----+-----+-----+-----+-----+ 900
TTCTCAGAACAGTTTCAGGTTTGGAAAGGACGTGACACACCTCTTATACTCAAAGCAGCTT
K S L V K S K P F L H C V E N M S F V E -
TTAAAATACTTCTTTTGATATCGTGTCTTAAAAATAGAGTAATAGGAGGTCAAGAGCACAAA
901 -----+-----+-----+-----+-----+ 960
AATTTTATGAAGAACTATAGCACGAATTTTATCTCATTATCTCTCAGTTCTCGTGTTT
L K Y F F D I V L K N R V I G G Q E H K -
TTGCTAAACTGCTGGCATCTGTATGCTCAGGATTATCTTAGCGTGATATCTGATTTAAAG
961 -----+-----+-----+-----+-----+ 1020
AACGATTTGACGACCGTAGGACTACGAGTCTTAATAGAATCGCACTATAGACTAAATTTT
L L N C W H P D A Q D Y L S V I S D L K -
GTGGTAACTTCAAACTTTATGATCCAAAAGTTGCTCTAAAGGATGATGATTTGAGTATA
1021 -----+-----+-----+-----+-----+ 1080
CACCATTGAAGTTTGAATACTAGGTTTTCAAGCAGATTTCTACTACTAAACTCATAT
V V T S K L Y D P K V R L K D D D L S I -
AAAGTTGGCTTTGCATTCGCCCCCAATTAGCCAAAAAAGTGAATCTTTCTTATGAGAAA
1081 -----+-----+-----+-----+-----+ 1140
TTTCAACCGAAACGTAAGCGGGGGTTAATCGGTTTTTTCACTTAGAAAGAATACTCTTT
K V G F A F A P Q L A K K V N L S Y E K -
ATATGCCGTACACTACATGATGATTTTGTGTAGAAGAAAAAATGGATGGAGAACGAATT
1141 -----+-----+-----+-----+-----+ 1200
TATACGCGATGTGATGTACTACTAAAAAACCATCTTCTTTTACCTACCTCTTCTTAA
I C R T L H D D F L V E E K M D G E R I -
CAAGTTCATTATATGAATTATGGTGAATCCATAAAATTTTTAGTAGACGGGGCATCGAC
1201 -----+-----+-----+-----+-----+ 1260
GTTCAAGTAATATACTTAATACCACTTAGGTATTTTAAAAAATCATCTGCCCCGTAGCTG
Q V H Y M N Y G E S I K F F S R R G I D -

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Figure 6 (Continued)

1261 TATACCTATTTGTACGAGCGAGCTTATCATCAGGAAGTATATCTCAACATTTGAGGTTT
-----+-----+-----+-----+-----+ 1320
ATATGGATAAACATGCCTCGCTCGAATAGTAGTCCTTGATATAGAGTTGTAAACTCCAAA
Y T Y L Y G A S L S S G T I S Q H L R F -
1321 ACAGATAGTGTTTAAAGAATGTGTTTTAGATGGAGAAATGGTGACGTTTGATGCAAAAAGA
-----+-----+-----+-----+ 1380
TGTCATCACAATTTCTTACACAAAATCTACCTCTTTACCACTGCAAACTACGTTTCTCT
T D S V K E C V L D G E M V T F D A K R -
1381 CGGTGATTCTTCCATTCGGTCTTGTAAAGGAAGTGCAAAGGAAGCGCTATCTTTTAAT
-----+-----+-----+-----+ 1440
GCCCACTAAGAAGGTAAGCCAGAACAAATTCCTTCACGTTTCCTTCGCGATAGAAAATTA
R V I L P F G L V K G S A K E A L S F N -
1441 AGTATAAATAATGTTGACTTTACCCCTTATATATGGTGTGTTGATCTGTTATACCTGAAT
-----+-----+-----+-----+ 1500
TCATATTTTATTACAAGTAAAGTGGGAATATATACCACAACTAGACAATATGGACTTA
S I N N V D F H P L Y M V F D L L Y L N -
1501 GGGACTTCGTTGACACCATTTACCCCTTCATCAAAGGAAGCAATATCTGAACAGCATTTTA
-----+-----+-----+-----+ 1560
CCCTGAAGCAACTGTGGTAATGGGAAGTAGTTTCCTTCGTTATAGACTTGTGCTAAAAT
G T S L T P L P L H Q R K Q Y L N S I L -
1561 AGTCCCTTGAAAAATATGTAGAAATAGTACGATCTTCTAGATGTTATGGTGTGGAGTCA
-----+-----+-----+-----+ 1620
TCAGGGAACCTTTTATAACATCTTTATCATGCTAGAAGATCTACAATACCACACCTCAGT
S P L K N I V E I V R S S R C Y G V E S -
1621 ATCAAAAAGTCTTTAGAAGTTGCAATCTCACTGGGTTGAGAAGGAGTTGTTTGAATAT
-----+-----+-----+-----+ 1680
TAGTTTTCAGAAATCTTCAACGTTAGAGTGACCAAGTCTTCCTCAACAAAACCTTATA
I K K S L E V A I S L G S E G V V L K Y -
1681 TATAATTCAGTTTATAATGTGCGCAGTCGAAACAACAACCTGGATCAAGGTAAAACTGAA
-----+-----+-----+-----+ 1740
ATATTAAGTTCAATATTACAGCGGTCAGCTTTGTTGTTGACCTAGTTCCATTTTGGACTT
Y N S S Y N V A S R N N N W I K V K P E -
1741 TATTTGGAGGAATTTGGAGAGAATTTAGACTTAATAGTAATAGGCAGAGATTCTGGGAAA
-----+-----+-----+-----+ 1800
ATAAACCTCCTTAAACCTCTCTTAAATCTGAATTATCATTATCCGTCCTAAGACCCCTTT
Y L E E F G E N L D L I V I G R D S G K -
1801 AAAGATTCTTTTATGCTAGGGTTACTTGTGCTAGATGAAGAAGAGTATAAAAAGCACCAA
-----+-----+-----+-----+ 1860
TTTCTAAGAAAATACGATCCCAATGAACACGATCTACTTCTCTCATATTTTTCGTGGTT
K D S F M L G L L V L D E E E Y K K H Q -
1861 GGAGACTCCTCTGAAATTTAGACCCTCAAGCCAAGAAAAACACATACAAAATTCAGA
-----+-----+-----+-----+ 1920
CCTCTGAGGAGACTTTAACATCTGGTGAGTTGCGTCTTTTTTGTGTATGTTTAAAGTTCT
G D S S E I V D H S S Q E K H I Q N S R -
AGAAGGGTGAAAAAATACCTTTCATTCTGTTCTATCGCAACCGGTATATCTCAAGAAGAA

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Figure 6 (Continued)

1921 -----+-----+-----+-----+-----+ 1980
TCTTCCCACTTTTMTTATGAAAGTAAGACAAGATAGCGTTTGCCATATAGAGTCTCTT
R R V K K I L S F C S I A N G I S Q E E -
TTCAAAGAAATCGACCGCAAAACGAGAGGACATTGGAAAAGAACCCTCGAAGTTGCTCCC
1981 -----+-----+-----+-----+-----+ 2040
AAGTTTCTTTAGCTGGCGTTTGTCTCTCTGTAACCTTTTCTTGGAGGCTTCAACGAGGG
F K E I D R K T R G H W K R T S E V A P -
CCTGCTTCAATTTTAGAATTTGGCTCAAAAATACCTGCCGAATGGATTGACCCCAGTGAA
2041 -----+-----+-----+-----+-----+ 2100
GGACGAAGTTAAAATCTTAAACCGAGTTTMTTATGGACGGCTTACCTAACTGGGGTCACTT
P A S I L E F G S K I P A E W I D P S E -
TCAATTGTTCTAGAAATAAAATCACGGTCTTTGGATAACACAGAAACGAATATGCAGAAG
2101 -----+-----+-----+-----+-----+ 2160
AGTTAACAAGATCTTTATTTTAGTGCCAGAAACCTATTGTGTCTTTGCTTATACGTCTTC
S I V L E I K S R S L D N T E T N M Q K -
TACGCTACCAATTGTACTTTGTACGGTGGCTATTGTAAAAGAATACGGTACGATAAAGAA
2161 -----+-----+-----+-----+-----+ 2220
ATGCGATGGTTAACATGAAACATGCCACCGATAACATTTTCTTATGCCATGCTATTCTT
Y A T N C T L Y G G Y C K R I R Y D K E -
TGGACAGATTGTTACACACTTAACGACTTATACGAAAGTAGGACGGTTAAATCTAACCCC
2221 -----+-----+-----+-----+-----+ 2280
ACCTGTCTAACAAATGTGTGAATTGCTGAATATGCTTTCATCCTGCCAATTTAGATTGGGG
W T D C Y T L N D L Y E S R T V K S N P -
AGCTATCAAGCGGAAAGGTCACAGCTTGGATTGATACGGAAAAAGAGAAAGAGTACTT
2281 -----+-----+-----+-----+-----+ 2340
TCGATAGTTGCGCTTTCAGTGTGGAACCTAACTATGCCCTTTTCTCTTCTCTCATGAA
S Y Q A E R S Q L G L I R K K R K R V L -
ATTTCAGACAGCTTTCACCAAAACAGGAAACAACTGCCAATTTCAAACATCTTTGCCCGGA
2341 -----+-----+-----+-----+-----+ 2400
TAAAGTCTGTGAAAGTGGTTTGTCTCTTGTGACGGTTAAAGTTGTAGAAACGGCCT
I S D S F H Q N R K Q L P I S N I F A G -
TTACTTTTTTATGTCTCTCTGACTATGTCAAGGAGGACACTGGAATACGGATTACACGG
2401 -----+-----+-----+-----+-----+ 2460
AATGAAAAAATACAAGAGAGACTGATACAGTGCCTCTGTGACCTPATGCCTAATGTGCC
L L F Y V L S D Y V T E D T G I R I T R -
GCAGAACTTGAAAAAACTATTGTGGAACATGGTGGTAAACTGATATATAATGTAATTTTA
2461 -----+-----+-----+-----+-----+ 2520
CGTCTTGAACTTTTTGTAAACACCTTGTACCACCATTTGACTATATATTACATTAAAT
A E L E K T I V E H G G K L I Y N V I L -
AAACGTCAATTCAATTGGGGACGTTCCGTTAATCAGCTGTAAAACTACCACGGAATGCAAG
2521 -----+-----+-----+-----+-----+ 2580
TTTGACAGTAAGTTAAACCCCTGCAAGCCAATTAGTCGACATTTTGATGGTGCCTTACGTT
K R H S I G D V R L I S C K T T T E C K -
GCTTTAATAGATCGAAGGATATGATATATTGCACCCAAATTGGGTACTCGATTGTATAGCA
2581 -----+-----+-----+-----+-----+ 2640

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Figure 6 (Continued)

CGAAATTATCTAGCTCCTATACTATATAACGTGGGTTTAACCCATGAGCTAACATATCGT
 A L I D R G Y D I L H P N W V L D C I A -
 TATAAGAGGCTCATCTGATCGAGCCCAATTATTGCTTTAACGCTCTCTCAAAAAATGAGA
 2641 -----+-----+-----+-----+-----+ 2700
 ATATTCTCGAGTAGGACTAGCTCGGGTTAATAACGAAATTGCAGAGAGTTTTTTACTCT
 Y K R L I L I E P N Y C F N V S Q K M R -
 GCCGTGCTGAAAAAGGGTAGATTGTTTGGGTGATAGTTTGGAAATGACATTTCGGAA
 2701 -----+-----+-----+-----+-----+ 2760
 CGGCAGCGACTTTTTTCCCATCTAACAAACCCACTATCAAAACTTTTACTGTAAAGCCTT
 A V A E K R V D C L G D S F E N D I S E -
 ACCAAACTGTCTATCTGTATAAATCACAACTAAGTCTACCAACCGATGGGGGAACCTCGAG
 2761 -----+-----+-----+-----+-----+ 2820
 TGGTTTGACAGTAGTAACATATTTAGTGTGATTGATGCGGTGGCTACCCCCCTGAGCTC
 T K L S S L Y K S Q L S L P P M G E L E -
 ATAGATTCTGAGGTTCCGGCGTTTCCATTATTTTTATTCTCCAACAGGATTGCATACGTA
 2821 -----+-----+-----+-----+-----+ 2880
 TATCTAAGACTCCAAGCCGCCAAAGGTAATAAAAAATAAGAGGTTGTCTTAACGTATGCAT
 I D S E V R R F P L F L F S N R I A Y V -
 CCACGTCGCAAAATTAGCACAGAAGATGACATTATAGAAATGAAATTAAGTTGTTGGT
 2881 -----+-----+-----+-----+-----+ 2940
 GGTGCAGCGTTTTTAATCGTGTCTCTACTGTAATATCTTTTACTTTTAATTCACAAACCA
 P R R K I S T E D D I I E M K I K L F G -
 GGAAAAATAACAGATCAACAGTCACTTTGTAACTTAATAATTATACCATATACTGATCCT
 2941 -----+-----+-----+-----+-----+ 3000
 CCTTTTATTGTCTAGTGTGTCAGTGAAACATTGAATTATTAATATGGTATATGACTAGGA
 G K I T D Q Q S L C N L I I I P Y T D P -
 ATTTTGAGGAAAGACTGCATGAATGAGGTACACGAAAAATAAAAGAACAATAAAGGCT
 3001 -----+-----+-----+-----+-----+ 3060
 TAAAACTCCTTTCTGACGTACTTACTCCATGTGCTTTTTTATTCTTGTATTATTCOGA
 I L R K D C M N E V H E K I K E Q I K A -
 TCTGATACTATACCGAAAAATAGCCAGGGTGGTGGCCCTGAATGGGTGGATCATTTCTATT
 3061 -----+-----+-----+-----+-----+ 3120
 AGACTATGATATGGCTTTTATCGGTCCAGCAACGGGGACTTACCCACCTAGTAAGATAA
 S D T I P K I A R V V A P E W V D H S I -
 AATGAAACTGTCAAGTGCCTGAAGAAGACTTCCCCGTAGTCAACTACTGATGGTGGCTT
 3121 -----+-----+-----+-----+-----+ 3180
 TTACTTTTGACAGTTCACGGACTTCTTCTGAAGGGGCATCAGTTGATGACTACACGCAA
 N E N C Q V P E E D F P V V N Y * W C V -
 TTGCGGAGGCTTAATTTTTTTGAAGTTTATTTAATACTATCCTACATATGTACATTAAATA
 3181 -----+-----+-----+-----+-----+ 3240
 AACGCCTCCGAATTAAAAAAGCTTCAAAATAAATTATGATAGGATGTATACATGTAATTTAT
 L R R L N F L K F I * Y Y P T Y V H * I -
 CTTCCGTAAAGTTTATCAATAAGAGTGGGAAGATGGCAATTATATTCAAAAGATTGGCCA
 3241 -----+-----+-----+-----+-----+ 3300
 GAAGGCATTGCAAAATAGTTATTCTCACCTTCTACGGGTAAATATAAGTTTTTCTAACGGT

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Figure 6 (Continued)

L P * R L S I R V E D A Q L Y S K D W P -
GTCAATTAACTTAAGGAAAAAAT
3301 -----+----- 3323
CAGTTAATTGAATTCCTTTTAA
V N * L K E K -